

Notice of Allowability

Application No.

10/724,945

Examiner

Renata McCloud

Applicant(s)

LATHROP ET AL.

Art Unit

2837

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 01/04/2006.
2. ☒ The allowed claim(s) is/are 13-22.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


MARLON T. FLETCHER
PRIMARY EXAMINER

DETAILED ACTION

Allowable Subject Matter

1. Claims 13-22 are allowed. The following is an examiner's statement of reasons for allowance:

Claims 14-21: The prior art fails to teach or make obvious. a control circuit comprising: a first circuit structured to receive an AC voltage, said first circuit including a first output, a first direction input and said first position indication, said first output having a first AC voltage responsive to said first direction input and said first position indication, a second circuit structured to receive the AC voltage from the AC source, said second circuit including a second output, a second direction input and said second position indication, said second output having a second ac voltage responsive to said second direction input and said second position indication; a first rectifier receiving the first output of said first circuit and a ground or neutral of said AC source, said first rectifier providing a DC voltage with a first polarity responsive to the first AC voltage of the first output of said first circuit; a second rectifier receiving the second output of said second circuit and the common or the neutral of said AC power source, said second rectifier providing DC voltage with a second polarity responsive to the second AC voltage of the second output of said second circuit; and a third circuit having an input energized by the second AC voltage of the second output of said second circuit, said third circuit having a first output when the input thereof is not energized and having a second output when the input thereof is energized, the first output of said third circuit enabling said first rectifier to apply the DC voltage with the first polarity of the output of said first rectifier to said motor, the second output of said third circuit enabling said second rectifier to apply the DC voltage with the second polarity of the output of said second rectifier to said motor, the first output of said third circuit

Art Unit: 2837

and said first rectifier providing a braking action to said motor responsive to removal of the second AC voltage of said second circuit.

Claims 22,13:The prior art fails to teach or make obvious a first circuit having first and second outputs first and second direction inputs, and first and second position indications; the first and second outputs having first and second voltages responsive to the first and second direction inputs and the first and second direction indications; a rectifier a second circuit having an input energized by one of the first and second outputs of the first circuit, the second circuit having a first output when the input is not energized and a second output when the input is energized, the first output enabling the rectifier to apply DC voltage to the motor at one of a first and second polarity, at least one of the first and second outputs of the second circuit providing a braking action to the motor responsive to removal of one the first and second AC voltages of the first circuit said second circuit is a relay having a coil, a first contact and a second contact, the coil of the relay of said second circuit being responsive to the direct current voltage of the output of said rectifier, the first contact of the relay of said second circuit being the first output of said second circuit enabling the first set of outputs of said first circuit to provide the direct current voltage of the output of said rectifier to said motor at the first polarity or enabling the second set of outputs of said first circuit to provide the direct current voltage of the output of said rectifier to said motor at the second polarity, the second contact of the relay of said second circuit being the second output of said second circuit providing the braking action to said motor.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Art Unit: 2837

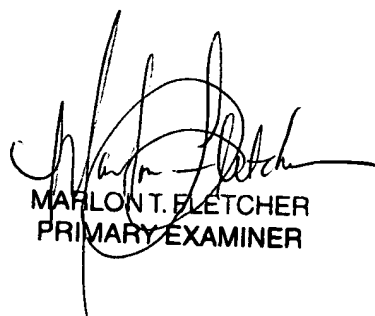
2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Renata McCloud whose telephone number is (571) 272-2069. The examiner can normally be reached on Mon.- Fri. from 8 am - 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Martin can be reached on (571) 272-2800 ext. 4. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Renata McCloud
Examiner
Art Unit 2837

RDM



MARLONT. FLETCHER
PRIMARY EXAMINER